# SERVICE MANUAL

INTEGRATED STEREO AMPLIFIER

# SANSUI AU-117II AU-217II AU-317II





SANSUI ELECTRIC CO., LTD.

#### SPECIFICATIONS

#### ● AU-117Ⅱ Power output Min. RMS, both channels driven, from 20 to 20,000 Hz, with no more than 0.17 % harmonic distortion. 25 watts per channel into 8 ohms Load impedance . . . . 8 ohms Total harmonic distortion ..... less than 0.17 % at or below rated min. RMS power output Intermodulation distortion (70 Hz: 7 kHz = 4:1 SMPTE method) . . . . . . less than 0.17 % at or below rated min. RMS power output Frequency response (at 1 watt) RIAA curve deviation (PHONO) ..... +0.5 dB -0.5 dB (30 to 15,000 Hz) Input sensitivity and impedance (1 kHz, for rated power output) PHONO ..... 2.5 mV/47 kilohms (Max. input capability; 160 mV at 1 kHz, less than 0.2 % total harmonic distortion) AUX, TAPE . . . . 150 mV/47 kilohms Output level (1,000 Hz) TAPE REC (pin jack) ..... 150 mV/47 kilohms Channel separation (1 kHz, at rated power output) PHONO .... better than 65 dB AUX . . . . . . better than 68 dB Hum and noise (short-circuit, A-network) PHONO . . . . . . 76 dB AUX . . . . . . . 95 dB Controls BASS .... ± 12 dB (50 Hz) TREBLE ..... ±11 dB (15 kHz) HIGH FILTER . . . -3 dB (7 kHz), 6 dB/oct LOUDNESS (-30 dB) . . . . . . . . . 8 dB at 50 Hz 6 dB at 10 kHz Power requirements Power voltage . . . . 100, 120, 220, 240 V (50/60 Hz) For U.S.A. and Canada ...... 120 V (60 Hz) Power consumption . . 80 watts Dimensions . . . . . . 430 mm (16-15/16") W 110 mm (4-3/8") H 340 mm (13-7/16") D Weight . . . . . . . . 6.7 kg (14.8 lbs) net 8.2 kg (18.1 lbs) packed ● AU-217II Power output Min. RMS, both channels driven, from 20 to 20,000 Hz, with no more than 0.06 % harmonic distortion. 40 watts per channel into 8 ohms Load impedance . . . . 8 ohms Total harmonic distortion ..... less than 0.06 % at or below rated min. RMS power output Intermodulation distortion (70 Hz : 7 kHz = 4:1 SMPTE method) . . . . . . less than 0.06 % at or below rated min. RMS power output Frequency response (at 1 watt) . . . . . . . . . . . . 10 to 50,000 Hz +0.5 dB —1.5 dB

Damping factor . . . . approximately 80 at 8 ohms load

(30 to 15,000 Hz)

to be continued >

..... +0.5 dB -0.5 dB

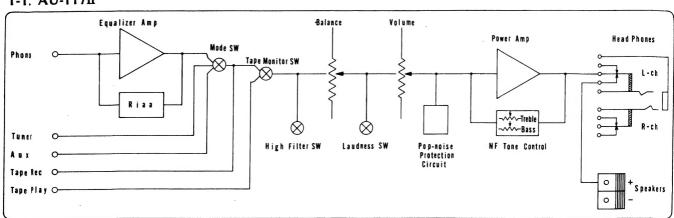
RIAA curve deviation (PHONO)

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Intermodulation distortion (70 Hz : 7 kHz = 4:1 SMPTE
⟨AU-217Ⅱ⟩
 Input sensitivity and impedance (1 kHz, for rated power
                                                                  method) . . . . . . less than 0.03 % at or below rated
                                                                                     min. RMS power output
   output)
    PHONO ..... 2.5 mV/47 kilohms
                                                               Frequency response (at 1 watt)
                                                                   . . . . . . . . . . . 5 to 70,000 Hz +0 dB -1.8 dB
      (Max. input capability; 200 mV at 1 kHz, less than
                                                               Damping factor (1 kHz, both channels driven)
      0.05 % total harmonic distortion)
    AUX, TAPE . . . . 150 mV/47 kilohms
                                                                   . . . . . . . . . . . 70 into 8 ohms
                                                               RIAA curve deviation (PHONO, 20 Hz to 20 kHz)
  Output level (1,000 Hz)
    TAPE REC (pin jack)
                                                                   ..... +0.2 dB, -0.2 dB
       .... 150 mV/47 kilohms
                                                               Input sensitivity and impedance (1 kHz)
                                                                  PHONO ..... 2.5 mV/47 kilohms
  Channel separation (1 kHz, at rated power output)
     PHONO .... better than 65 dB
                                                                   (Max. input capability; 220 mV at 1 kHz, less than
     AUX . . . . . . better than 68 dB
                                                                   0.08 % total harmonic distortion)
  Hum and noise (short-circuit, A-network)
                                                                  AUX, TAPE . . . . 150 mV/47 kilohms
     PHONO . . . . . . 76 dB
                                                                  MIC . . . . . . . 8 mV/10 kilohms
     AUX . . . . . . . . 95 dB
                                                               Output level and impedance (1,000 Hz)
                                                                  TAPE REC . . . . . 150 mV/47 kilohms
  Controls
     BASS . . . . . . . . ±12 dB (50 Hz)
TREBLE . . . . . . ±11 dB (15 kHz)
                                                               Channel separation (1 kHz, at rated power output)
                                                                  PHONO . . . . . better than 65 dB
     PHONO SUBSONIC
                                                                  AUX . . . . . . . better than 75 dB
     Hum and noise (short-circuit, A-network)
                                                                  PHONO . . . . . . . 77 dB
     LOUDNESS (-30 dB)
                                                                  TAPE/AUX . . . . . 100 dB
       .... 8 dB at 50 Hz
                                                               Controls
                                                                         ..... ±11 dB (50 Hz)
                        6 dB at 10 kHz
                                                                  BASS
                                                                  TREBLE ..... ±10 dB (15 kHz)
  Power requirements
     Power voltage . . . . 100, 120, 220, 240 V
                                                                  PHONO SUBSONIC
                        (50/60 Hz)
                                                                   For U.S.A. and Canada
                                                                  HIGH FILTER . . . -3 dB (7 kHz), 6 dB/oct
       .... 120 V (60 Hz)
                                                                  LOUDNESS (VOLUME control: -30 dB)
     Power consumption 120 watts
                                                                    . . . . . . . . . . 9 dB at 50 Hz
                                                                                     7 dB at 10 kHz
  Dimensions . . . . . . 430 mm (16-15/16") W
                        110 mm (4-3/8") H
                                                               Power requirements
                                                                  Power voltage . . . . 100, 120, 220, 240 V
                        340 mm (13-7/16") D
  Weight . . . . . . . . 8.3 kg (18.3 lbs) net
                                                                                     (50/60 Hz)
                                                                    For U.S.A. and Canada
                        9.8 kg (21.6 lbs) packed
                                                                    Power consumption
                                                                   Maximum consumption
● AU-317II
                                                                     . . . . . . . . . . . 180 watts
  Power output
     Min. RMS, both channels driven, from 20 to 20,000 Hz,
                                                                    Rated consumption
     with no more than 0.03 % harmonic distortion.
                                                                    . . . . . . . . . . . 180 watts 220 VA
                                                               Dimensions . . . . . . 430 mm (16-15/16") W
        60 watts per channel into 8 ohms
                                                                                     110 mm (4-3/8") H
  Load impedance . . . . 8 ohms
  Total harmonic distortion
                                                                                     340 mm (13-7/16") D
      . . . . . . . . . . less than 0.03 % at or below rated
                                                               Weight . . . . . . . . . . . .
                                                                                     9.8 kg (21.6 lbs) net
                        min. RMS power output
                                                                                     11.3 kg (24.9 lbs) packed
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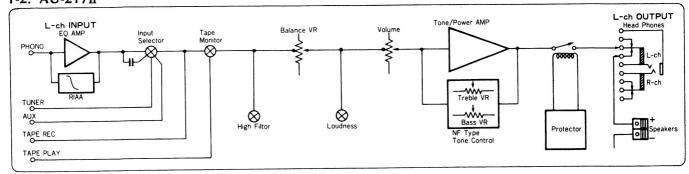
\* Design and specifications subject to change without notice for improvements.

## 1. BLOCK DIAGRAM

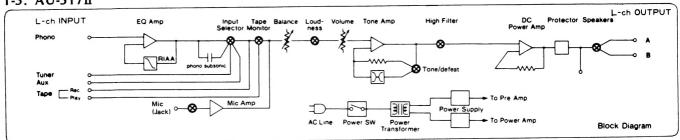
#### 1-1. AU-117Ⅱ



### 1-2. AU-217II



## 1-3. AU-317II



## 2. ADJUSTMENTS

Note: 1.	Master Volume	Minimum
2.	Room Temperature	18°C ~ 28°C
		$(65^{\circ}F \sim 83^{\circ}F)$

#### 2-1. AU-117II

# A) Bias Current adjustment (see the picture of Bottom View on page 7)

Note: 1. By turning adjustment volumes, VR05 and VR06 counterclockwise, the bias current is decreased.

	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR
L-ch	DC Volt Meter	Between TP01 (+) and TP03 (-) F-2728	VR05 F-2728	13 mV
R-ch	DC Volt Meter	Between TP02 (+) and TP04 (-) F-2728	VR06 F-2728	13 mV

#### 2-2. AU-217II

# A) Bias Current adjustment (see the picture of Top View on page 8)

Note: 1. By turning adjustment volumes, VR01 and VR02 counterclockwise, the bias current is decreased.

	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR
L-ch	DC Volt Meter	TP Terminal (+) (-) of F-2760	F-2760 VR01	7 mV
R-ch	DC Volt Meter	TP Terminal (+) (-) of F-2760	F-2760 VR02	7 mV

3. For adjustment, run the unit for more than 3 minutes after the power is switched on.

#### 2-3. AU-317II

## A) DC 0V adjustment (see the picture of Top View on page 8)

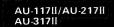
Note: At first, set VR01, VR03 for L-CH and VR02, VR04 for R-CH to center position, then make the rough adjustment by VR03, VR04 and fine adjust by VR01, VR02.

	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR
L-ch	DC Volt Meter	Speaker Terminal between (+) and (-)	F-2754 VR03, VR01	DC 0V
R-ch	DC Volt Meter	Speaker Terminal between (+) and (-)	F-2754 VR04, VR02	DC 0V

# B) Bias Current adjustment (see the picture of Top View on page 8)

Note: 1. By turning adjustment volumes, VR05 and VR06 counterclockwise, the bias current is decreased.

	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR
L-ch	DC Volt Meter	Between TP01 (+) and TP03 (-) F-2754	F-2754 VR05	13 mV
R-ch	DC Volt Meter	Between TP02 (+) and TP04 (-) F-2754	F-2754 VR06	13 mV

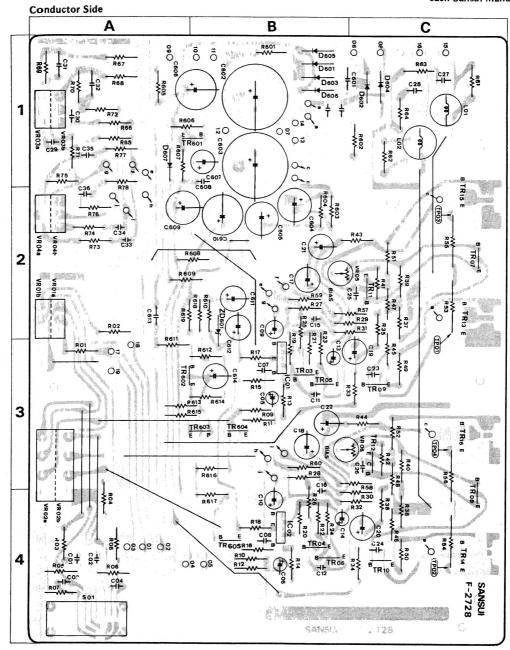


## 3. PARTS LOCATION & PARTS LIST

#### 3-1. AU-117II

A) F-2728 Tone Control & Driver Circuit Board (Stock No. 7572221) (AU-117II Only) which was appended previously to each Sansui Manual

Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the common parts list for capacitors & resistors which was appended previously to each Sansui Manual



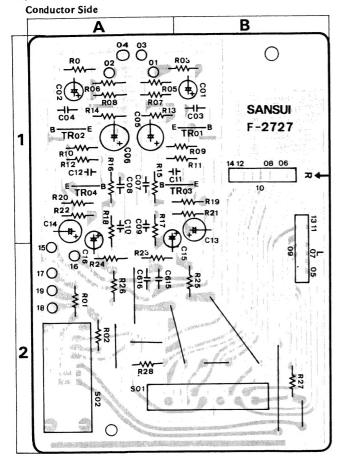
<b>Parts</b>	1 :0
F &I LS	LIS

Parts No.	Stock No.	Description	Position
Transistor			
TR03, 04	0306740, 1	2SC1845 F	3B.4B
TR05,06	0306740, 1	2SC1845 F	3B.4B
TR07,08	0306070, 1	2SC1313 F,G	2C.4C
TR09, 10	0308520, 1	2SD438 D, E	3C.4C
TR11, 12	0303360, 1	2SB560MP D, E	2C.3C
TR 13, 14	0306541, 2	2SC1986 O, Y	2C.4C
TR 15, 16	0300911, 2	2SA771 (O), (Y)	1C.3C
TR 601	0306740, 1	2SC1845 F, E	1B
TR 602	0305951.2	2SC945 Q.P	3B
TR 603	0305951, 2	2SC945 Q, P	38
TR 604	0305951, 2	2SC945 Q, P	3B
TR 605	0305951,2	2SC945 Q, P	4B
•IC			
IC 01, 02	0360290, 1	2SA798 F, G	3B.4B
●Diode			
D 601	0310340	10D1	1B
D 602	0310340	10D1	1C

Pe	erts No.	Stock No.	Description	Position
D	603	0310340	10D1	1B
Ď	604	0310340	10D1	1C
D	605	0310340	10D1	1B
D	606	0310340	10D1	1B
D	607	0311160	1S2473D	1A
• 7	ener Dio	de		
Z	0601	0315970	EQA01-13R	2B
С	01,02	0620391	390pF 50V P.C.	4A
С	601	0655103	10000pF 500V C.C.	1B
С	602	0549010	6800µF 35V E.C.	1B
С	603	0549010	6800µF 35V E.C.	1B
R	43, 44	0191101	100Ω 1/4W F.R.	2C.3C
R	45,46	0191221	220Ω 1/4W F.R.	3C.4C
R	47,48	0191221	220Ω 1/4W F.R.	2C.3C
R	49,50	0191689	6.8Ω 1/4W F.R.	3C.4C
R	51,52	0191689	6.8Ω 1/4W F.R.	2C.3C
R	53, 54	0212338	0.33Ω 2W N.I.R.	2C.4C

Parts No.	Stock No.	Description	Position
R 55,56	0212338	0.33Ω 2W N.I.R.	2C.3C
R 603	0192681	680Ω 1/2W F.R.	28
R 607	0191220	22Ω 1/4W F.R.	1A
R 608	0191181	180Ω 1/4W F.R.	2B
L 01,02	4210290	1.5µH Inductor	1C
VR01	1015270, 1	250kΩ MN x 2	2A
		Volume, balance	
VR02	1011120, 1	250kΩ A x 2	3A
VR03	4045000 4	Volume, master	
VHU3	1015260, 1	100kΩ C x 2	1A
VR04	1015260, 1	Volume, bass 100kΩ C x 2	2A
V 1104	1015260, 1	Volume, treble	ZA
VR05,06	1035050	470Ω B Volume,	2B.3C
¥1105,00	1033030	bias current	20.30
5 01	1171020	Lever Switch, loudness	4A

## B) F-2727 Equalizer Circuit Board (Stock No. 7551491)(AU-117II Only)



Parts No.		. Stock No. Description		Position
•1	ransistor			
TF	101.02	0301090, 1	2SA992 F	1B.1A
TF	03,04	0306740, 1	2SC1845 F	1B.1A
s	01	1101800	Rotary Switch, input selector	2B
S	02	1171050	Lever Switch, tape monitor	2A

#### Note:

The circuit boards, F-2726, F-2729 & F-2731 are not supplied as the assembled, the individual parts on the circuit boards, however are provided for orders.

C) F-2726 Input Terminal Circuit Board (AU-117II Only)

Parts List		
Sto	ck No.	Description
220	00580	4P Input Terminal, tuner, aux, tape
220	00600	2P Input Terminal, phono

## D) F-2729 Filter Circuit Board (AU-117II Only)

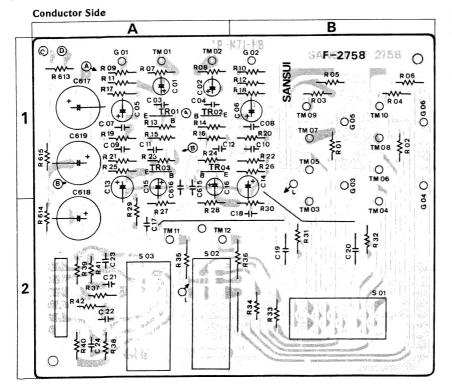
Pa	Parts List				
Pa	rts No.	Stock No.	Description		
s	01	1171020	Lever Switch, high filter		

E) F-2731 Voltage Selector Circuit Board (AU-117II Only)

Parts No.	Stock No.	Description
F 01	0432220	1A 250V AC Fuse
	0432240	2A 250V AC Fuse
	2310220	Fuse Holder (Large)

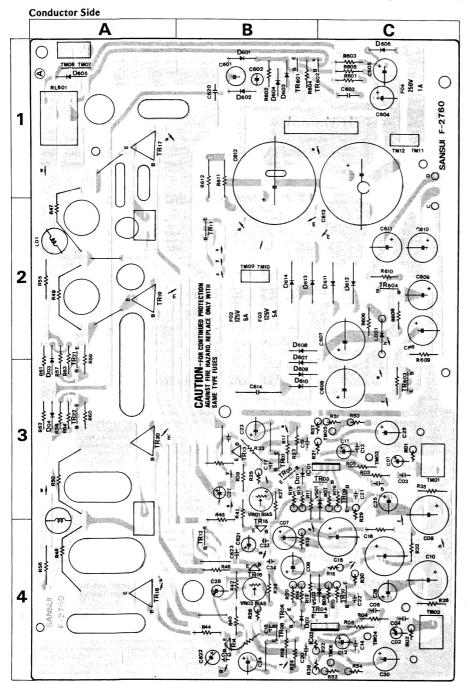
#### 3-2. AU-217II

## A) F-2758 Equalizer Circuit Board (Stock No. 7551481) (AU-217II Only)



Parts List					
Pa	rts No.	Stock No.	Description	Position	
•1	ransistor				
TF	301,02	0301090, 1	2SA992 F	1A	
TF	103,04	0306740, 1	2SC1845 F	1A	
С	17, 18	0620621	620pF 50V P.C.	2A.2B	
С	21, 22	0620391	390pF 50V P.C.	2A	
s	01	1102740	Rotary Switch, input selector	2B	
S	02	1171030	Lever Switch, tape monitor	2A	
S	04	1171020	Lever Switch, loudness		

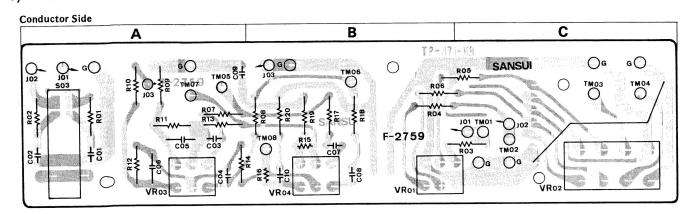
## B) F-2760 Power Amplifier Circuit Board (Stock No. 7572211) (AU-217II Only)



Parts No.	Stock No.	Description	Position
		,	
•Transistor TR03, 04	0200470 1	254326 F 6	
TR05, 06	0300470,1	2SA726 F,G	3C.4C
TR07,08	0306740, 1	2SC1845 F, E	3B.4B
TR09, 10	0300470, 1 0306740, 1 0301090, 1 0306740, 1	2SA992 F,E 2SC1845 F,E	3B.4B
TR11, 12	0306070, 1	2SC1845 F, E 2SC1313 F, G	3C.4C
TR 13, 14	0308520, 1	25C1313 F,G	2B.4B
TR15, 16	0303360, 1	2SD438 D, E 2SB560MP D, E 2SD188A R, Q	3B.4B
TR 17, 18	0308541, 2	2SD188A R,Q	4B 1A,4A
TR 19, 20	0303381, 2	2SB545A R,Q	2A.3A
TR21, 22	0305951,2	2SC945 Q, P	2, 3A.3A
TR 601	0305951, 2	2SC945 Q,P	1B
TR 602	0305951, 2	2SC945 Q, P	1B,C
TR 603	0308520, 1	2SD438 D, E	3C
TR 604	0308520, 1 0303360, 1	2SB560MP D, E	2C
●IC IC 01,02	0360290, 1	2SA798 F,G	3C.4C
	0000250,1	25/750 1,0	30.40
●Diode D 01,02	0311160	1S2473D	3B.4B
D 03, 04	0311160	1S2473D	3A
D 601	0310400	1N34A	1B
D 602	0310400	1N34A	1B
D 603	0310400	1N34A	1B
D 604	0310400	1N34A	1B
D 605	0310340	10D1	1A
D 606	0310340	10D1	1C
D 607	0301340	10D1	3B
D 608	0310340	10D1	2B
D 609	0310340	10D1	3B
D 610	0310340	10D1	3B
D 611	0311530	30D2	2C
D 612 D 613	0311530	30D2	2C
D 614	0311530 0311530	30D2 30D2	2B 2B
	0011000	3002	20
●Varistor VS 01, 02	0340150	MV12	3C.4C
C 05,06	0620101	100-5 504 5 0	20.40
C 612	0549111	100pF 50V P.C. 6800µF 50V E.C.	3C.4C
C 612	0549111	6800µF 50V E.C.	1B 1C
C 614	0603227	0.022µF 125V M.C.	3B
	0003227	0.022µF 125V M.C.	3D
R 23, 24	0191820	82Ω 1/4W F.R.	3B.4B
R 29,30 R 39,40	0193820	82Ω 1/4W F.R.	3C.4C
	0191221	220Ω 1/4W F.R.	3B.4B
R 41,42 R 43,44	0191221	220Ω 1/4W F.R.	3B.4B
R 45, 46	0191689 0191689	6.8Ω 1/4W F.R.	4B 4B
R 47, 48	0132338	6.8Ω 1/4W F.R.	2A.4A
R 49,50	0132338	0.331 2W Ce.M.	2A.4A 2A.3A
3 51,52	0231302	0.33Ω 2W Ce.R. 0.33Ω 2W Ce.R. 3.0kΩ 1/2W M.R.	3C.4C
R 53, 54	0231241	240Ω 1/2W M.R.	3C.4C
R 606	0231241	2.2kΩ 1W N.I.R.	2C
R 611	0103682	6.8kΩ 1/2W C.R.	1B
R 612	0103682	6.8kΩ 1/2W C.R.	1B
_ 01,02	4210290	RF Coil 1.5µH	2A
	1150400	Relay	
RL601	₹1150480	Relay	1A
	1150490	Relay	
/R01,02	1035050	470Ω B Volume, bias current	3B.4B
- 00 05			
02,03	0432290	5A 150V AC Fuse	28
04	0432220	1A 250V AC Fuse	1C
	2030050	Power Transistor Socket	

C.R.	: Carbon Resistor	E.C.	: Electrolytic Capacitor
S.R.	: Solid Resistor	BP.E.C.	: Bi-Polar Electrolytic
Ce.R.	: Cement Resistor		Capacitor
M.R.	: Metal Film	C C.	: Ceramic Capacitor
	Resistor	Mi.C.	: Mica Capacitor
F.R.	: Fusing Resistor	O.C.	: Oil Capacitor
N.I.R.	: Non-Inflammable	P.C.	: Polystyrene Capacitor
	Resistor	T.C.	: Tantalum Capacitor
M.C.	: Mylar Capacitor		

## C) F-2759 Tone Control Circuit Board (Stock No. 7562791) (AU-217II Only)



Parts Lis	it						
Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
VR01	1015270, 1	250kΩ MN x 2 Volume, balance	В	VR04	1015260, 1	100kΩ C x 2 Volume, treble	В
VR02	1011120, 1	250kΩ A x 2	С			Volume, treble	
VR03	1015260, 1	Volume, master 100kΩ C x 2 Volume, bass	Α	S 04	1171020	Lever Switch, hi filter	

Note: The circuit boards, F-2757, F-2755 & F-2731 are not supplied as the assembled, the individual parts on the circuit boards, however are provided for orders.

## D) F-2757 Input Terminal Circuit Board (AU-217II Only)

Parts I	_ist		
	Stock No.	Description	
	2200580 2200600	Input Terminal, tuner, aux, tape Input Terminal, phono	

## E) F-2755 Output Connection Circuit Board(AU-217II Only)

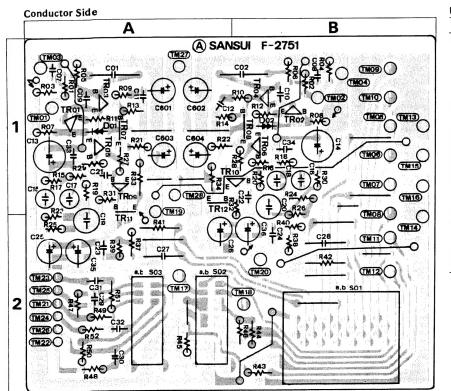
Parts Lis	it		
Parts No.	Stock No.	Description	
R 01,02 R 03,04	0211100 0211221	10Ω 1W N.I.R. 220Ω 1W N.I.R.	
J 01	2430350	Jack, headphone	

# F) F-2731 Voltage Selector Circuit Board (AU-217II Only)

Parts No.	Stock No.	Description
F 01	0432240	2A 250V AC Fuse
	0432260	3A 250V AC Fuse
	2310220	Fuse Holder (Large)

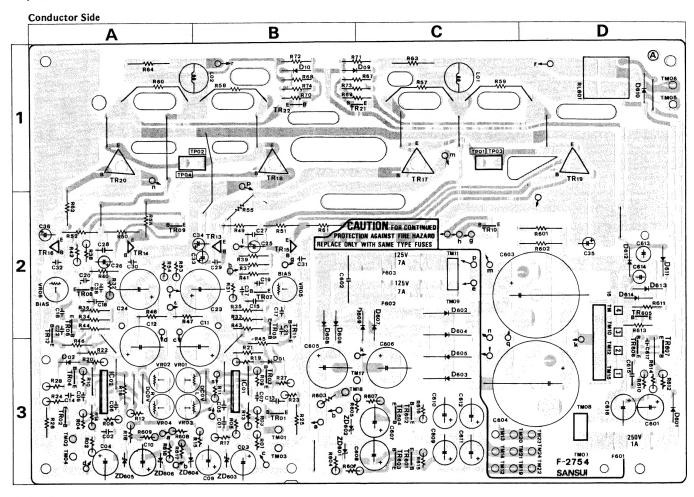
## 3-3. AU-317II

## A) F-2751 Equalizer Circuit Board (Stock No. 7551501) (AU-317II Only)



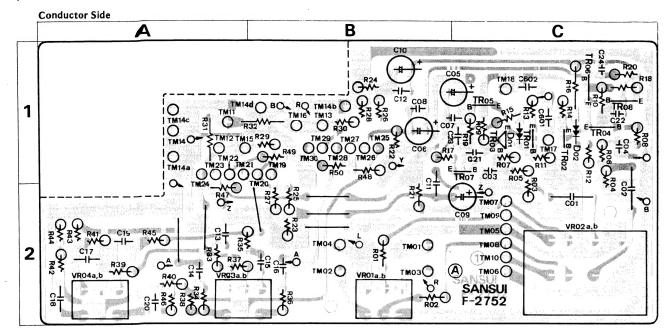
Pa	rts No.	Stock No.	Description	Position
•T	ransistor			
TF	01.02	0301090,1	2SA992 F, E	1A.1B
TF	03,04	0301170, 1	2SA991 F, E	1A.1B
TF	05,06	0301170, 1	2SA991 F, E	1A.1B
TF	107,08	0306740, 1	2SC1845 F, E	1A.1B
TF	109, 10	0306740, 1	2SC1845 F, E	1A.1B
TF	11,12	0303360, 1	2SB560MP D, E	1A
•٧	aristor			
D	01,02	0340150	MV12	1A.1B
С	01,02	0602109	1.0µF 100WV M.C.	1A.1B
С	07,08	0620101	100pF 50V P.C.	1A.1B
С	11, 12	0620101	100pF 50V P.C.	1A
С	15, 16	0620151	150pF 50V P.C.	1A.1B
С	17, 18	0625272	2700pF 50WV P.C.	1A.1B
С	19,20	0625103	10000pF 50WV P.C.	2A.1B
С	31,32	0620391	390pF 50V P.C.	2A
R	15, 16	0231561	560Ω 1/2W M.R.	1A.1B
R	17,18	0231220	22Ω 1/2W M.R.	1A.1B
R	19,20	0231273	27kΩ 1/2W M.R.	1A.1B
R	23, 24	0231304	300kΩ 1/2W M.R.	2A.1B
R	25, 26	0231153	15kΩ 1/2W M.R.	2A.2B
R	33, 34	0103392	3.9kΩ 1/2W C.R.	1A
s	01	1102740	Rotary Switch, input selector	
S	02	1171030	Lever Switch, tape monitor	2A
S	03	1171020	Lever Switch, loudness	2A

## B) F-2754 Power Amplifier Circuit Board (Stock No. 7572231) (AU-317II Only)



Parts Lis	it										
Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
Transistor				D 09,10	0311160	1S2473D	1B	R 35, 36	0191820	82Ω 1/4W F.R.	2B.2A
TR01,02	0306740.1	2SC1845 F, E	3B.3A	D 601	0310340	10D1	3D	R 45,46	0191820	82Ω 1/4W F.R.	3B.3A
TR03,04	0306740.1	2SC1845 F, E	3B.3A	D 602	0311570	ERD03-02H	2C	R 57,58	0135338	0.33Ω 5W Ce.R.	1C.1B
TR05,06	0301090,1	2SA992 F, E	2B,2A	D 603	0311570	ERD03-02H	3C	R 59,60	0135338	0.33Ω 5W Ce.R.	1C.1A
TR07,08	0300760, 1	2SA917 1,2	2B.2A	D 604	0311570	ERD03-02H	2C	R 63,64	0212229	2.2Ω 2W N.I.R.	1C.1A
TR09, 10	0306070, 1	2SC1313 F, G	2A.2C	D 605	0311570	ERD03-02H	3C	R 601	0103822	8.2kΩ 1/2W C.R.	2D
TR 11, 12	0306360, 1	2SC1951 1, 2	2B.2A	D 606	0310340	10D1	2B	R 602	0103822	8.2kΩ 1/2W C.R.	2D
TR13,14	0308611,2	2SD357 D, E	2B.2A	D 607	0310340	10D1	2C	R 603	0202272	2.7kΩ 2W N.I.R.	3B
TR15, 16	0303441.2	2SB527 D.E	2B.2A	D 608	0310340	10D1	2B				
TR 17, 18	0306571.2	2SC2261 O, Y	1C.1B	D 609	0310340	10D1	2C	L 01,02	4210290	RF Coil 1.5µH	1C.1B
TR 19, 20	0300951,2	2SA981 O, Y	1D.1A	D 610	0310340	10D1	1D	2 0.,02		THE CONTROL	
TR 21, 22	0305951,2	2SC945 Q, P	1C.1B	D 611 ~ 1	4 0310400	1N34A	2D		4450400	D-I	
TR 601	0308611, 2	2SD357 D, E	3C					D1 04	1150400	Relay	
TR 602	0303441, 2	2SB527 D, E	3C	●Zener Dio				RL01	1150480	Relay	
TR 603	0306740, 1	2SC1845 F.E	3C	ZD 601	0316110	EQA01-30R	3B		1150490	Relay	
TR 604	0301090, 1	2SA992 F.E	3C	ZD 602	0316110	EQA01-30R	3B				
TR 605	0305951, 2	2SC945 Q.P	2D	ZD 603, 04	0316020	EQA01-18R	3B.3A	VR01,02	1034230	2.2kΩ B Volume, DC 0V	3A
TR 606	0305951,2	2SC945 Q.P	3D	ZD 605, 06	0316020	EQA01-18R	3A.3A	VR03, 04	1034150	100Ω B Volume, DC 0V	3A
TR 607	0305951.2	2SC945 Q.P	3D	C 01,02	0620101	100pF 50V P.C.	3B.3A	VR05, 06	1035070	1kΩ B Volume, bias curren	t 2B
			•••	C 07,08	0620271	270pF 50V P.C.	1B.3A				
•lc				C 602	0605477	0.047µF 250V M.C.	2B	F 601	0432220	1A 250V AC Fuse	3D
IC 01,02	0370281,2	2SK109 D, E	3B.3A	C 603	0549905	10000µF 56V E.C.	2D	F 602,03	0432500	7A 125V AC Fuse	2C
				C 604	0549905	10000µF 56V E.C.	2D 3D	F 002,03	2030050	Power Transistor Socket	20
<ul> <li>Diodes</li> <li>D 01,02</li> </ul>	0311160	1S2473D	3B.3A	C 901,02		1.0µF 100WV M.C.	3D		2030050	LOME! Harrareto 200Ket	

## C) F-2752 Tone Control Circuit Board (Stock No. 7562801) (AU-317II Only)

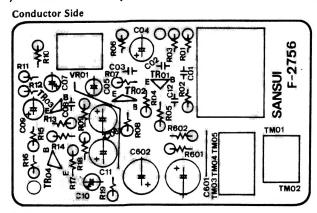


Parts List				
Parts No.	Stock No.	Description	Position	
Transistor				
TR01,02	0301090,1	2SA992 F, E	1C	
TR03.04	0301170, 1	2SA991 F, E	1C	
TR05,06	0301170, 1	2SA991 F, E	1C	
	0000740 4	2001045 F F	10	

Parts No.	Stock No.	Description	Position
<ul><li>Varistor</li></ul>			
D 01,02	0340150	MV12	1C
R 17,18	0193680	68Ω 1/4W F.R.	1B.1C
VR01	1015320, 1	250k Ω MN x 2 Volume, balance	28

Parts No.	Stock No.	Description	Position
VR02	1090290	150kΩ B x 2 Volume, master	2C
VR03	1015310, 1	100kΩ C x 2 Volume, treble	2A
VR04	1015310, 1	100kΩ C x 2 Volume, bass	2A

## D) F-2756 Mic Amp Circuit Board (Stock No. 7610431) (AU-317II Only)



Parts List				
Parts No.	Stock No.	Description		
Transistor				
TR01	0301090, 1	2SA992 F, E		
TR02	0306740, 1	2SC1845 F, E		
TR03	0301090, 1	2SA992 F, E		
TRO4	0306740, 1	2SC1845 F, E		
R 601,602	0193121	120Ω 1/4W F.R.		
VR01	1090270	$20k\Omega$ (A) Volume, mixing level		
.1 01	2430330	Jack Mic		

Note: The circuit boards, F-2750, F-2768, F-2753 & F-2731 are not supplied as the assembled, the individual parts on the circuit boarts, however are provided for orders.

## E) F-2750 Input Terminal Circuit Board

Parts List		(AU-317II Only)
Parts No.	Stock No.	Description
	2200580 2200600	Input Terminal, tuner, aux, tape Input Terminal, phono

## F) F-2768 Output Connection Circuit Board (AU-317II Only)

Parts List						
Pa	rts No.	Stock No.	Description			
	01,02 03,04	0212221 0202100	220Ω 2W N.I.R. 10Ω 2W N.I.R.			
J	01	2430350	Jack, headphone			

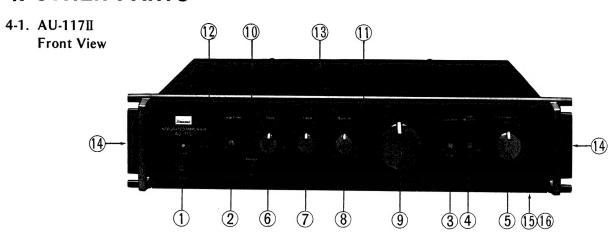
## G) F-2753 Filter Circuit Board (AU-317II Only)

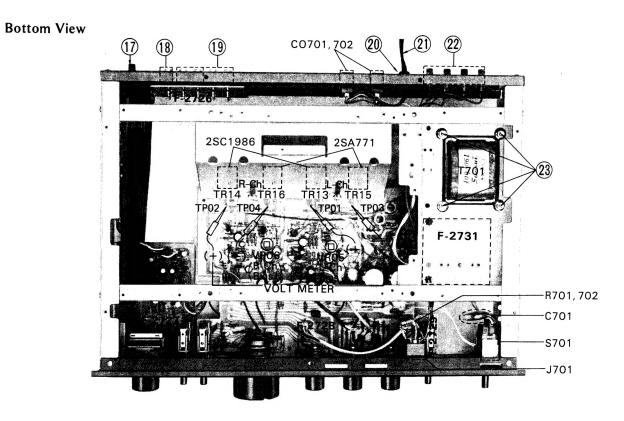
Pa	Parts List							
Pa	rts No.	Stock No.	Description					
s	01	1171040	Lever Switch, tone defeat					
s	02	1171020	Lever Switch, high filter					

## H) F-2731 Voltage Selector Circuit Board (AU-317II Only)

Parts L	List		
Parts No.	Stock No.	Description	
F 01	01 0432260	3A 250V AC Fuse	
	0432290	5A 125V AC Fuse	
	2310220	Fuse Holder (Large)	

## 4. OTHER PARTS



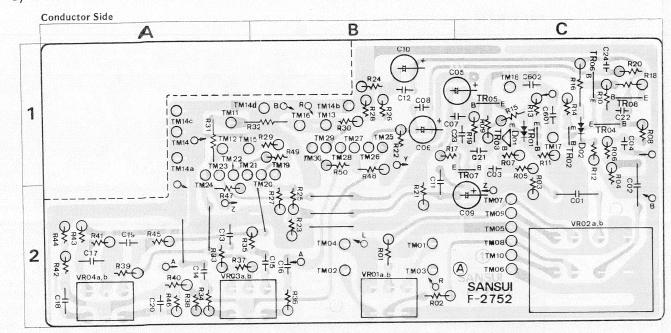


Parts List (Front & Bottom View)

No.	Stock No.	Description	Parts No.	Stock No.	Description
	∫ 5326612	Lever Switch Knob	9	(5318910	Volume Knob
l .	1172000	Lever Switch, power		1011120.1	250kΩ x 2 Volume
	5326612	Lever Switch Knob		5048050	Masking Sheet (A)
2	1171020	Lever Switch, high filter		5288962	Plate For VR (M8)
,	∫ 5326612	Lever Switch Knob	10	2430300	Head Phone Jack
,	1171020	Lever Switch, loudness	11	7008250	Front Panel Ass'y
	∫ 5326612	Lever Switch Knob		0319120	LED
•	1171050	Lever Switch, tape monitor	12	0319120	LED
	5318920	M-10 TY Knob	13	5006920	Bonnet
i	1101800	Rotary Switch, input selector	14	5396700	Rack-mounting Adaptor (
	5048040	Masking Sheet (B)	15	5058773	Bottom Plate
	(5318930	S-14 TY Knob	16	5507350	Leg
1	1015260, 1	100kΩ (C) x 2 Bass Volume	17	2230150	Ground Terminal
	5048020	Masking Sheet (D)	18	2200580	Input Terminal, tuner, aux
	(5318930	S-14 TY Knob	19	2200600	Input Terminal, phono
	1015260, 1	100kΩ (C) x 2 Treble Volume	20	3910600	Strain Relief
	5048020	Masking Sheet (D)	21	3800470	Power Cord
	(5318930	S-14 TY Knob	22	2210410	Speaker Terminal
	1015270, 1	250kΩ (MN) x 2 Balance Volume	23	5110903	Flange Nut
	5048020	Masking Sheet (D)			

Pa	rts No.	Stock No.	Description
TF	Transistor R 13, 14 R 15, 16	0306541,2 0300911,2	2SC1986 O, Y 2SA771 O, Y
С	701	0659811	0.01µF 125V C.C.
R	701,702	0201221	220Ω 1W N.I.R.
CC	0701,702	2450070	AC Outlet
Т	701	4003060	Power Transformer
J	701	2430300	Head Phone Jack
s	701	1172000	Power Switch

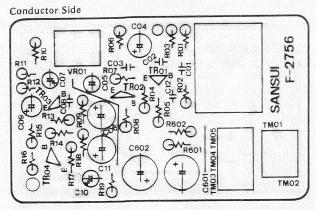
## C) F-2752 Tone Control Circuit Board (Stock No. 7562801) (AU-317II Only)



Parts No.	Stock No.	Description	Position
Transistor			
TR01.02	0301090,1	2SA992 F, E	1C
TR03,04	0301170.1	2SA991 F, E	1 C
TR05.06	0301170.1	2SA991 F.E	1C
TR07.08	0306740.1	2SC1845 F, E	1C

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
Varistor				VR02	1090290	150kΩ B x 2	2C
D 01,02	0340150	MV12	1C			Volume, master	
R 17,18	0193680	68Ω 1/4W F.R.	1B,1C	VR03	1015310,1	100kΩ C x 2 Volume, treble	2A
VR01	1015320,1	250kΩ MN x 2 Volume, balance	2B	VR04	1015310,1	100kΩ C x 2 Volume, bass	2A

## D) F-2756 Mic Amp Circuit Board (Stock No. 7610431) (AU-317II Only)



Parts No.	Stock No.	Description
•Transistor TR01 TR02 TR03 TR04	0301090, 1 0306740, 1 0301090, 1 0306740, 1	2SA992 F,E 2SC1845 F,E 2SA992 F,E 2SC1845 F,E
R 601,602	0193121	120Ω 1/4W F.R.
VR01	1090270	$20k\Omega$ (A) Volume, mixing level
J 01	2430330	Jack Mic

Note: The circuit boards, F-2750, F-2768, F-2753 & F-2731 are not supplied as the assembled, the individual parts on the circuit boarts, however are provided for orders.

## E) F-2750 Input Terminal Circuit Board (AU-317II Only

Parts Li	st	(AU-31/II Only)
Parts No.	Stock No.	Description
	2200580	Input Terminal, tuner, aux, tape
	2200600	Input Terminal, phono

## F) F-2768 Output Connection Circuit Board (AU-317II Only

Pa	rts Lis	it	(AU-31/II Uni
Pa	rts No.	Stock No.	Description
	01,02	0212221	220Ω 2W N.I.R.
R	03,04	0202100	10Ω 2W N.I.R.
J	01	2430350	Jack, headphone

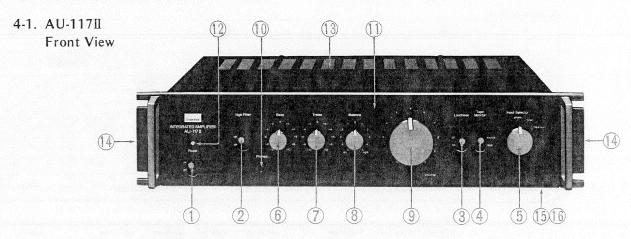
## G) F-2753 Filter Circuit Board (AU-317II Only)

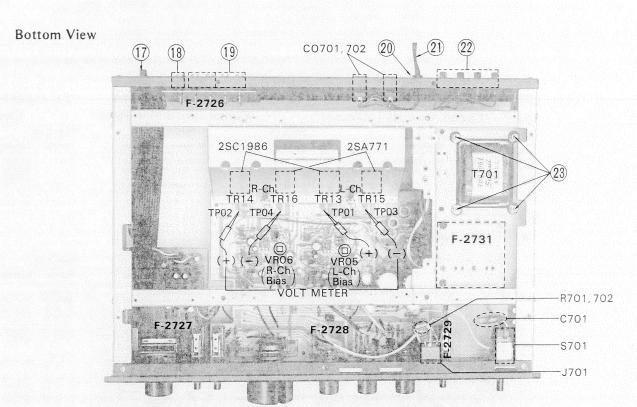
Parts List						
Parts No.	Stock No.	Description				
S 01	1171040	Lever Switch, tone defeat				
S 02	1171020	Lever Switch, high filter				

## H) F-2731 Voltage Selector Circuit Board (AU-317II Only)

Parts List						
Parts No.	Stock No.	Description				
F 01	0432260	3A 250V AC Fuse				
	0432290	5A 125V AC Fuse				
	2310220	Fuse Holder (Large)				

## 4. OTHER PARTS

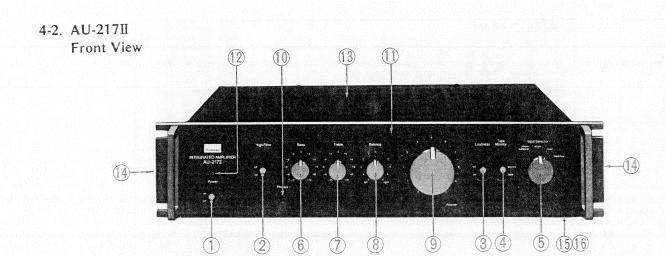


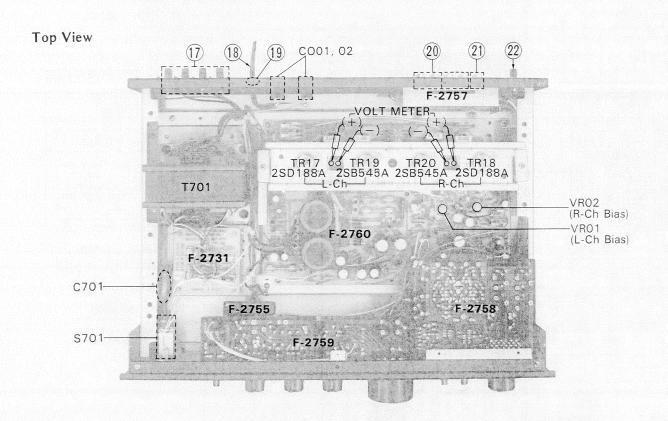


Parts	List	⟨Front &	Bottom	View>

rts No.	Stock No.	Description	Parts No.	Stock No.	Description
	( 5326612	Lever Switch Knob	9	(5318910	Volume Knob
1	1172000	Lever Switch, power		1011120,1	250kΩ x 2 Volume
	[ 5326612	Lever Switch Knob		5048050	Masking Sheet (A)
2	1171020	Lever Switch, high filter		5288962	Plate For VR (M8)
	(5326612	Lever Switch Knob	10	2430300	Head Phone Jack
3	1171020	Lever Switch, loudness	11	7008250	Front Panel Ass'y
	f 5326612	Lever Switch Knob		0319120	LED
4	1171050	Lever Switch, tape monitor	1.2	0319120	LED
	f 5318920	M-10 TY Knob	13	5006920	Bonnet
5	1101800	Rotary Switch, input selector	14	5396700	Rack-mounting Adaptor (each)
	5048040	Masking Sheet (B)	15	5058773	Bottom Plate
	(5318930	S-14 TY Knob	16	5507350	Leg
6	1015260.1	100kΩ (C) x 2 Bass Volume	17	2230150	Ground Terminal
	5048020	Masking Sheet (D)	18	2200580	Input Terminal, tuner, aux, tape
	(5318930	S-14 TY Knob	19	2200600	Input Terminal, phono
7	1015260.1	100kΩ (C) x 2 Treble Volume	20	3910600	Strain Relief
	5048020	Masking Sheet (D)	21	3800470	Power Cord
	(5318930	S-14 TY Knob	22	2210410	Speaker Terminal
8	1015270, 1	250kΩ (MN) x 2 Balance Volume	23	5110903	Flange Nut
	5048020	Masking Sheet (D)			

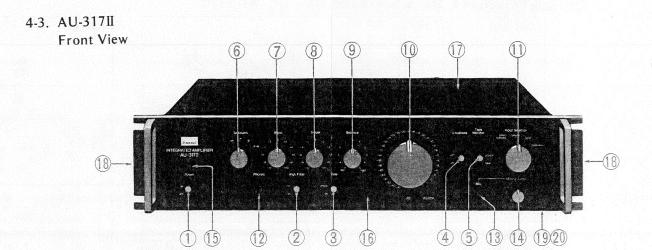
	ransistor		
			2SC1986 O, Y 2SA771 O, Y
С	701	0659811	0.01µF 125V C.C.
R	701,702	0201221	220Ω 1W N.I.R.
cc	701,702	2450070	AC Outlet
Т	701	4003060	Power Transformer
J	701	2430300	Head Phone Jack
S	701	1172000	Power Switch

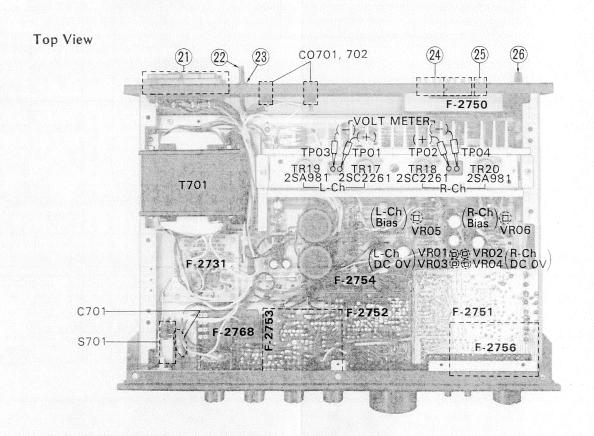




Parts List (Front & Top View)

arts List (Front & Top View)								The Company of Company
Parts No.	Stock No.	Description	Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
	(5326612	Lever Switch Knob, power		(5318930	S-14 TY Knob, balance volume	19	3910600	Strain Relief
1	1172000	Lever Switch, power	8	1015270, 1	250kΩ (MN) x 2 Balance Volume	20	2200580	Input Terminal, tuner, aux, tape
		Lever Switch Knob, high filter		5048020	Masking Sheet (D)	21	2200600	Input Terminal, phono
2	5326612 1171020	Lever Switch, high filter		(5318910	Volume Knob	22	2230150	Ground Terminal
	15326612	Lever Switch Knob, loudness		1011120.1	250kΩ × 2 Volume		5288721	Plate D03, D04 on F-2760
3	1171020	Lever Switch, loudness	9	5048050	Masking Sheet (A)			
	(5326612	Lever Switch Knob, tape monitor		5288962	Plate (M8), volume	<ul> <li>Transistor</li> </ul>		
4	1171030	Lever Switch, tape monitor	10	2430350	Head Phone Jack	TR17,18	0308541,2	2SD188A R,Q
	(5318920	M-10 TY Knob, input selector	11	7008210	Front Panel Ass'v	TR19,20	0303381,2	2SB545A R,Q
5	1102740	Rotary Switch, input selector		0319120	LED			
	5048040	Masking Sheet (B)	12	0319120	LED	C 701	0659811	0.01μF 125V C.C.
	(5318930	S-14 TY Knob, bass volume	13	5006930	Bonnet			
6	1015260, 1	100kΩ (C) x 2 Bass Volume	14	5396700	Rack-mounting Adaptor (each)	T 701	4003050	Power Transformer
	5048020	Masking Sheet (D)	15	5058762	Bottom Plate			
	(5318930	S-14 TY Knob, treble volume	16	5507350	Leq	S 701	1172000	Power Switch
7	1015260, 1	100kΩ (C) x 2 Treble Volume	17	2210410	Speaker Terminal			
,	5048020	Masking Sheet (D)	18	3800470,1	Power Cord	CO701,702	2450070	AC Outlet





Parts List (Front & Top View)

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
	(5326612	Lever Switch Knob, power		(5318930	S-14 TY Knob, balance volume	18	5396700	Rack-mounting Adaptor (each)
1	1172010	Lever Switch, power	9	1015320, 1	250kΩ (MN) x 2 Balance Volume	19	5058762	Bottom Plate
	(5326612	Lever Switch Knob, high filter		5048030	Masking Sheet (C)	20	5507350	Leg
2	1171020	Lever Switch, high filter		(5318910	Volume Knob	21	2290190	Speaker Terminal
	(5326612	Lever Switch Knob, tone defeat	10	1090290	150kΩ × 2 Volume	22	3800470,1	Power Cord
3	1171040	Lever Switch, tone defeat	10	5048050	Masking Sheet (A)	23	3910600	Strain Relief
	(5326612	Lever Switch Knob, loudness		5236741	Plate (M9), volume	24	2200580	Input Terminal, tuner, aux, tape
4	1171020	Lever Switch, loudness		(5318920	M-10 TY Knob, input selector	25	2200600	Input Terminal, phono
	(5326612	Lever Switch Knob, tape monitor	11	1102740	Rotary Switch, input selector	26	2230150	Ground Terminal
5	1171030	Lever Switch, tape monitor		5048040	Masking Sheet (B)		5288721	Plate, D09, D10 on F-2754
	(5318930	S-14 TY Knob, speakers	12	2430350	Jack, headphone			
6	1101560.1	Rotary Switch, speakers	13	2430330	Mic Jack	<ul><li>Transistor</li></ul>		
	5048030	Masking Sheet (C)	14	(5318940	E-18 TY Knob, mic mixing level volume	TR17,18	0306571,2	2SC2261 O, Y
	(5318930	S-14 TY Knob, bass volume		5048040	Masking Sheet (B)	TR 19, 20	0300951,2	2SA981 O, Y
7	1015310,1	100kΩ (C) x 2 Bass Volume		1090270	20kΩ (A) Mic Mixing Level Volume	C 701	0659811	0.01µF 125V C.C.
	5048030	Masking Sheet (C)	15	0319120	Light Emitted Diode	T 701	4003040	Power Transformer
	(5318930	S-14 TY Knob, treble volume	16	7008230	Front Panel Ass'y		2 2450070	AC Outlet
8	1015310, 1	100kΩ (C) x 2 Treble Volume		0319120	LED	F 701	0431280	5A 250V AC Fuse
	5048030	Masking Sheet (C)	17	5006930	Bonnet	S 701	1172000	Power Switch

Design and specifications subject to change without notice for improvement.

I a presentation at les spécifications sont susceptibles d'êter modifiées sens pré

\* La présentation et les spécifications sont susceptibles d'êter modifiées sens préavis par suites d'améliorations é

C D Ε G Н Α 5. SCHEMATIC DIAGRAM 5-1. AU-317II | R<sub>O1-02</sub> | 2SKIO9(D)(E) | R<sub>O1-04</sub> | 2SCI845(F,E) | R<sub>O2-06</sub> | 2SA992(F,E) | R<sub>O2-06</sub> | 2SA917(I,2) | R<sub>O2-07</sub> | 2SCI313(F,G) | TR<sub>II-2</sub> | 2SCI95(I(I,2) F-2751 HEAD AMP F-2754 POWER AMP F-2752 CONTROL AMP F-2750 TR01~02 2SA992 (F,E) 7R03-06 2SA991(F,E) 7R07-08 2SC1845(F,E) Cs07 10,50V TRON 7R13~# 2SD357(D)(E) 78/3-16 25U537(U)(E) 78/3-16 25B527(D)(E) 78/3-80 25C2261(O,Y) 78/3-80 25A981(O,Y) 78/2-82 25C945(O,P) D01-02 152473D 2.5mV/50kQ R<sub>11</sub> 27 Kak 6901 km ZD<sub>627-636</sub> EQAOI-18R D<sub>09-10</sub> IS2473D D<sub>610</sub> IODI D<sub>611-614</sub> IN34A Rn Ris 22 560 Key 220 Ken 820 S. A 22% De 2524 6.3V 0 Cor 0.047 8.8. X @ 330 C23 TRe05-6072SC945(Q,P) Q 388 \*\* C31 3P ╧┪ ╬╸┡┹ S<sub>030</sub> S C<sub>31</sub> 390P R<sub>51</sub> 2. REC TSONY +47.5V \*\* C10 \*\* 5 +47V TR01-02 2SA992 (F,E) 7R<sub>03-06</sub> 2SA991(F,E) 7R<sub>07-10</sub> 2SC1845(F,E) 7R<sub>11-12</sub> 2SB560(E,F) 2 To F-2768 9-\$\$\$ -47.5V Rs4 \*2 -28V  $\Diamond$ 2SA917 2SA991 2SA992 2SB560 2SC945 2SC1845 2SC1951 -29V \$ = ±3 
 NO
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 2SB527 2SD357 F-2731 VOLT SEL SPEAKERS; So36 C32 HEAD PHONE; 33 F603 32.6V 2SA981 2SC2261 \$ \$ \$ \$ 2SK 109 F-2756 △ CERAMIC Cap

MYLAR "

STYROL " : HIGH FILTER 1. OFF 2. ON ±28V 120(14) INPUT SELECTOR : F-2751 1. PHONO SUBSONIC 2. PHONO 3. TUNER 4. AUX TR01,03 2SA992 (F,E) 7R<sub>601</sub> 2SD357(D,E) 7R<sub>602</sub> 2SB527(D,E) 7R<sub>603</sub> 2SC1845(F,E) 7R<sub>604</sub> 2SA992(F,E) ALL RESISTORS 1/4 WATTS UNLESS OTHERWISE NOTEL TR02,04 2SC1845(F,E) : SPEAKER SELECTOR 10D1 1S2473D : TAPE MONITOR 1. SOURCE 2. TAPE F-2751 \*1 METAL FILM RESISTOR TOLERANCE ± 1% \*2 NON-FLAMMABLE RESISTO \*3 FUSING - RESISTOR Each DC Voltage shows the nominal Value in Volts at no input Signal 1N34A \$ **₹** 1. OFF 2. ON So3a-b: LOUDNESS 1. OFF 2. ON F-2751 D606~609 IODI ZD601~602 EQAOI-3OR -48V TR602 Reor 03 (120(94) -M E BALANCE VROIA, b VOLUME VROZA, b TREBLE VRO3A, b BASS VRO4A, b F-2752 F-2752 F-2752 F-2752 13mV TPot -TPos TPos -TPos B AROWN GRAY 32.6V C 101 0.01µ 1.4kV GRAY 32.6V 8 BLACK 2 2.5A 32.6V GRAY GEAY 32.6V GRAY 32.6V 8 BLACK B BLACK 2.5A 32.6V BROWN EU Model AS Model ERD03-02J CSA Model 32.6V GRAY

D

С

В

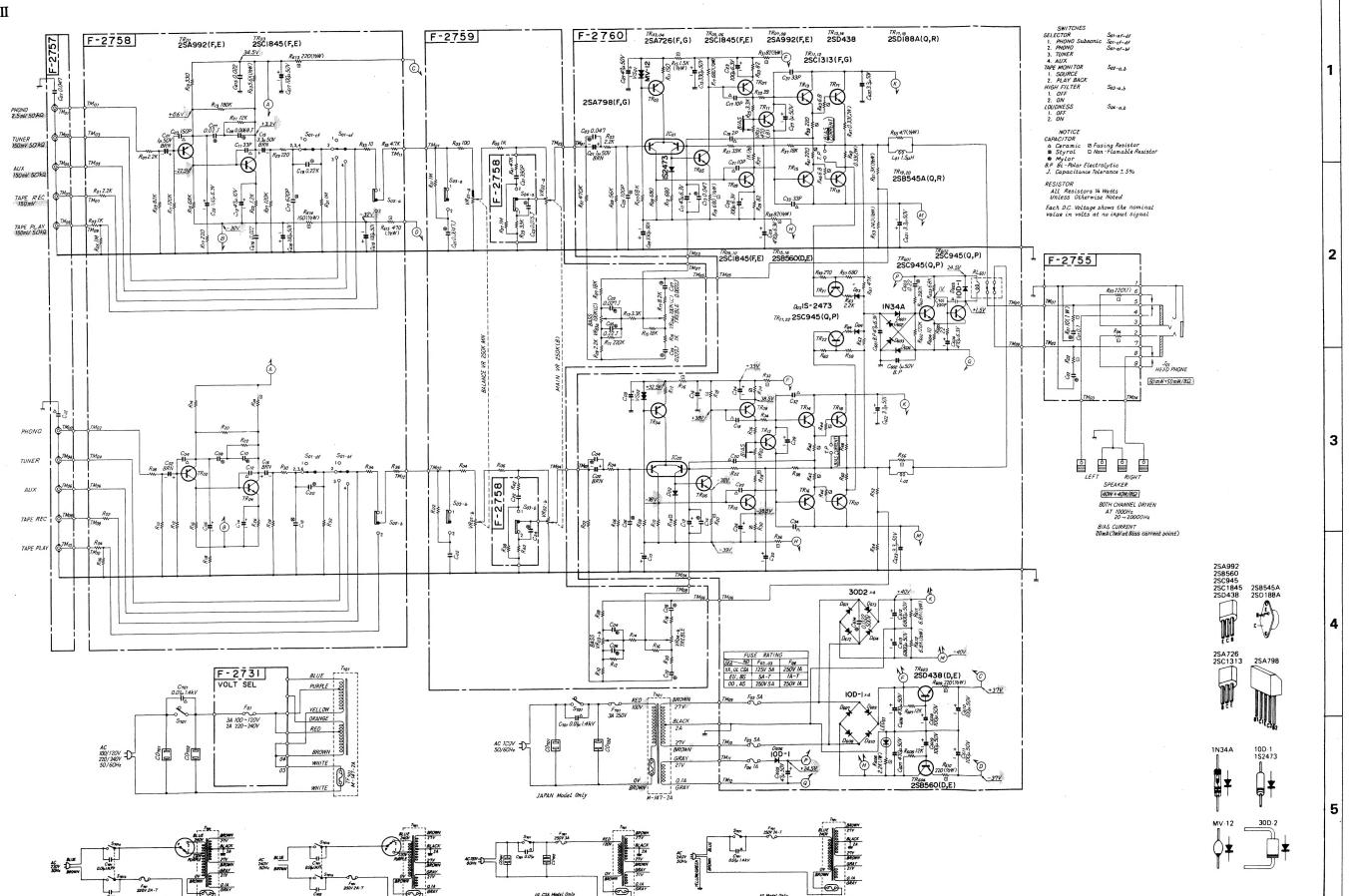
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5-2. AU-217II



AU-117II/AU-217II AU-317II Α D 5-3. AU-117II 

## 6. PACKING LIST

## 6-1. AU-117II

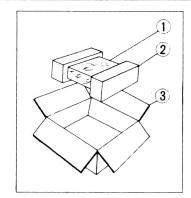
Parts No.	Stock No.	Description	
1	9116760	Vinyl Cover	
2	9028081	Styrofoam Packing	
3	9001720	Carton Case	

## 6-2. AU-217II

Stock No.	Description
9116760	Vinyl Cover
9028081	Styrofoam Packing
9001740	Carton Case
	9116760 9028081

#### 6-3. AU-317II

Parts No.	Stock No.	Description	
1	9116760	Vinyl Cover	
2	9028081	Styrofoam Packing	
3	9001760	Carton Case	



## 7. ACCESSORY PARTS LIST

## 7-1. AU-117II

Stock No.	Description
9204520 5396700 9116830 9238120	Operating Instructions Rack-mounting Adaptor (each) Vinyl Bag For Rack-mounting Adaptor Schematic Diagram

## 7-2. AU-217II

Stock No.	Description
9204530 5396700 9116830 9238130	Operating Instructions Rack-mounting Adaptor (each) Vinyl Bag For Rack-mounting Adaptor Schematic Diagram

## 7-3. AU-317II

Stock No.	Description
9204540 5396700 9116830 9238140	Operating Instructions Rack-mounting Adaptor (each) Vinyl Bag For Rack-mounting Adaptor Schematic Diagram



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